

BURLEY RANGER DISTRICT
USDA - FS - Sawtooth National Forest

To: Lynn Kunzler
Fax #: 801 359 3940
Date: 2/5/96
From: G. Strothers

SUBJECT Lynn Spr.
MESSAGE Here is my review + comment
on the Draft letter

Page 1 of 8 pages

If you do not receive all of the pages, please call Gordon, at (208) 678-0430.

BURLEY RANGER DISTRICT
ROUTE # 3, 3650 OVERLAND AVE.
BURLEY, IDAHO 83318-3242

Telephone: (208) 678-0430
FAX Number: (208) 678-0439



TEMPORARY DRAFT

January 30, 1996

William and Preston Bown
Utah Building Stone Supply
842 West 400 North
Bountiful, Utah 84987

Post-It™ brand fax transmittal memo 7671	
To	Gordon Struthers
From	Lynn Kunzler
Co.	USFS
Dept.	
Phone #	
Fax #	208-678-0439

Re: Plan Review, Utah Building Stone Supply Company, Lynn Springs Quarry, M/003/025, Box Elder County, Utah

Dear Mr. Bown:

The Division has completed a review of your draft Notice of Intention to Commence Large Mining Operations for the Lynn Springs Quarry, located in Box Elder County, Utah, which was received December 11, 1995. After reviewing the information, the Division has the following comments which will need to be addressed before tentative approval may be granted. The comments are listed below under the applicable Minerals Rule heading. Please format your response in a similar fashion. Please note, you will not be allowed to expand your operation until these deficiencies are addressed and your plan is approved.

R647-4-105 - Maps, Drawings & Photographs

105.2 Surface facilities map:

OK The application does not have adequate drawings or descriptions to determine the areas to be disturbed. The area affected by the roads also needs to be added to the disturbed acreage total. As per the Division's September 25, 1994 inspection of the site, it was estimated that roads for which you will be required to reclaim (the new access road you built and the roads between the pits) have affected 1.4 acres.

105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)

Please Provide typical cross sections of roads, pads, pits, and waste rock areas.

OK A reclamation treatments map(s) is needed. This map(s) will need to show what roads will be reclaimed and which roads will remain as part of the post mining land use, areas that will be covered with soil, areas of solid rock outcrop (areas where topsoiling and seeding will not occur) and areas that may receive other reclamation treatments such as deep ripping, mulch, fertilizer, etc.

R647-4-106 - Operation Plan

106.3 Estimated acreages disturbed, reclaimed, annually.

TEMPORARY DRAFT
Page 2

OK Your Notice identifies 10 acres of existing and proposed disturbance. However, as discussed above, 1.4 acres of road disturbance currently exists, not ^{was} identified in the plan. Also, this is an additional .5 acres that you have disturbed (the area that you were using as a work area) that needs to be included in the acreage until this area is successfully reclaimed. This will make 10.9 acres of current and proposed disturbance. Your request to wait until there is 1 - 2 acres of disturbance before you conduct concurrent reclamation is acceptable provided that the area is stable, no sediment is leaving the site, and that the public is protected from any hazardous situations; and that the total disturbance does not exceed the amount for which you have covered in your reclamation surety.

106.5 Existing soil types, location, amount

There are some soils that will need to be salvaged as you progress with your operation. You will need to provide a soil analysis of the soils at the quarry site and a analysis of the soils in the proposed millsite. The soil analyses will need to include the following parameters: soil depth, texture, pH, SAR, EC, % Organic matter, Cation Exchange Capacity, and fertility (Nitrogen, Phosphorus (as P_2O_5) and Potassium (as K_2O)). You will also need to estimate the total volume of soil at each site that can be salvaged.

10-2 inches
worth salvaging

106.6 Plan for protecting & redepositing soils

OK You show a small area on the map for topsoil storage. However, you do not indicate how the topsoil will be stockpiled, the extent (size) of stockpiles, or how the stockpiles will be protected for further impacts. Please describe how the soil materials will be stockpiled and protected, and how you will respread these soils at the time of reclamation. Also, please show on the map where these soils will be stockpiled at the millsite.

106.7 Existing vegetation - species and amount

This section was not addressed. Before you will be allowed to develop any of the proposed roads, quarry areas, or millsite, you will need to provide the results of a vegetation survey which identifies the predominant vegetation of each area that will be disturbed and the % of vegetation ground cover. This information is also needed for each vegetation type that was presumed to exist for the current disturbed areas. The BLM and Forest Service may be able to assist you in obtaining this information.

106.9 Location & size of org. waste, tailings, ponds

Will there be any waste rock stockpiles or disposal at the mill site. If so, they will need to be shown on the map and the size of the piles/disposal areas will need to be identified.

R647-4-107 - Operation Practices107.1 Public safety & welfare107.1.14 Posting warning signs

Will there be a need to post warning signs at this operation?

Gate will be a lowered

TEMPORARY DRAFT
Page 3

107.1.15 Constructing berms, fences, etc. above highwalls

OK Will there be a need to construct berms, fences etc. above highwalls to protect the public? If so, please describe and show locations on the map. If not, explain how the public will be prevented from accessing this operation.

107.3 Erosion control & sediment control

OK Please describe how you will minimize erosion and sediment from leaving the site.

107.4 Deleterious material safely stored or removed

OK Please describe how potentially deleterious materials will be stored on site and removed (this includes fuel, oil, grease, etc.) Indicate the volume of these materials that you may need to keep on site at any one time and how they will be protected from spillage. If any of these materials are stored on-site, they will be required to be kept in a 100% containment structure.

107.5 Suitable soils removed & stored

Refer to comments under R647-4-106.5 and .6.

107.6 Concurrent reclamation

Please refer to comments under R647-4-106.3.

R647-4-109 - Impact Assessment

109.3 Impacts on existing soil resources

See comments under R647-4-106.5 and 106.6.

109.4 Slope stability, erosion control, air quality, safety

Please provide for Final reclamation contours or typical cross sections, reclaimed roads, pads and the final pit configurations showing final slope of the highwalls. ~~needs to be provided.~~

R647-4-110 - Reclamation Plan

110.2 Roads, highwall, slopes, drainages, pits, etc. reclaimed

OK Please provide plans for reclaiming the new access road that you constructed and the road between the two pits. Also, please describe more fully the reclamation of pits and highwalls. Will the highwall be completely backfilled? Will pits be filled sufficiently to prevent them from impounding water? Typical cross sections of reclaimed pads, pits and highwalls would answer these questions.

110.3 Description of facilities to be left (post mining use)

TEMPORARY DRAFT

Page 4

It is the Division's understanding that all facilities associated with this project will be reclaimed. If this is not the case, please describe facilities to be left, request the appropriate variances, and provide the required documentation to justify the requested variances.

110.4 Description or treatment/disposition of deleterious or acid forming material

See comments under R647-4-107.4

Most likely not a problem

110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed

90001
At this time, all new roads are to be reclaimed. Before you will be allowed to leave any of these roads, you will need to request a variance and provide documentation from the Forest Service (for those on Forest Service lands), from the BLM (for those on BLM lands), and from private land owners (for those on private lands) indicating that the roads are to be left when you finish and that they will assume responsibility for them.

110.5 Revegetation planting program

There are enough fines ~~rather than~~ from the quarrying operation that with moly all areas can be revegetated
While the Division will grant variances to reseeding areas of the quarry where there is no soil material or fines that would support vegetation, all other areas will be required to be revegetated. Please describe the reclamation plan that will be used, including regrading (of any excavated quarries and waterbars on roads), seed bed preparation, seeding, mulching, etc. Attached is a recommended seed mix that can be used for reclamation purposes. If acceptable, please make it part of your plan. Otherwise, provide a seed mix that you plan to use for our review. Please note, the attached recommended seed mix has been reviewed by the BLM and the Forest Service and is acceptable to them.

R647-4-111 - Reclamation Practices

111.12 Topsoil redistribution

111.1 Public safety & welfare

1.15 Constructing berms/fences above highwalls

It is assumed that no highwalls will be left at a steeper angle than 45 degrees. Please confirm this assumption. If there will be highwalls left, please describe stability and how the public will be protected (i.e. berms, fencing, etc.). Please identify these areas on a map. Also, a formal request for a variance will need to be made.

111.3 Erosion & sediment control

during the operation and
What measures will be used to control erosion at the time of reclamation?

111.4 Removal/storage of deleterious material

See comments under R647-4-107.4

can be done if an effort is made

TEMPORARY DRAFT
Page 5

111.6 All slopes regraded to stable configuration

Refer to comments under R647-4-110.2

111.7 Highwalls stabilized at 45 degrees or less

Refer to comments under R647-4-110.2 and 111.15.

111.8 All roads & pads reclaimed

Refer to comments under R647-4-110.2

111.12 Topsoil redistribution

Refer to comments under R647-4-106.6.

111.13 Revegetation-adaptable species

See comments under R647-4-110.5.

R647-4-112 - Variance

Variances have been requested for salvaging topsoil, respreading topsoil, seedbed preparation, reseeding, mulching, fertilizing and meeting the revegetation success standard. It appears that these variances are requested for the entire permit area. Although the narrative appears to apply only to the quarry area and not the millsite. At this point in time, the Division is not considering any variances for the millsite. If Variances are warranted for the millsite area, a specific request will need to be made along with appropriate justification. The variances that are being considered at this time will only apply to the quarry site.

The application provides a narrative to justify salvaging and respreading topsoil on areas where no soil exists due to the outcropping of the stone. The Division accepts this justification and will grant a variance from salvaging topsoil on areas where no topsoil exists and will also grant a variance for respreading topsoil on these areas. However, before these variances will be granted, a map showing the locations of these areas will need to be provided. You will still be required to salvage topsoil from areas where this is salvageable topsoil. A site inspection may be needed to identify those areas where the Division will require topsoil salvaging.

The Division will grant a variance from seeding those areas that are solid rock (and from meeting revegetation performance standards on these areas as well). These areas will need to be shown on a map.

All areas that will be retopsoiled, or areas where there is sufficient fines that could support vegetation, will need to be seeded, fertilized, and mulched (waste rock areas). This will include all roads that will not remain as part of the approved post mining land use.

Seedbed preparation will be required on all areas that are to be seeded. This may consist of ripping or deep disking to eliminate compaction.

Black Pine Mine experience
with mulch on waste dumps
with a little bit of fines we
can grow grass on anything!

see 110.5 comments

TEMPORARY DRAFT
Page 6

It is the Division's opinion that reasonable reclamation efforts will result in a permanent vegetation cover that will achieve the revegetation performance standards. Therefore, a variance for meeting the revegetation performance standards on areas to be seeded is *not* granted at this time.

R647-4-113 - Surety

*My draft estimated
Bond is \$10,700*

By certified letter dated December 20, 1995, you were given 60-days (from your receipt) to post a \$17,500 interim reclamation surety with the Division. The interim surety is required in order to continue mining operations within the existing disturbed areas of the Lynn Springs Quarry mine site. You received the letter on December 24, 1995. The deadline for receipt of this interim surety would accordingly be February 26, 1996. You will need to provide the \$17,500 interim amount by this date, unless we work out a final reclamation surety estimate that is different than the interim amount by then. ~~TONY - THIS PARAGRAPH IS A COPY OF WHAT WAS ON THE GROUND CREEK REVIEW AND NEEDS TO STAY INTACT AS PER NON-COMPLIANCE MINERATION REQUIREMENTS. THIS CAN BE LAST PARAGRAPH OF SECTION IF YOU THINK BEST.~~

Your Notice included a surety estimate for reclaiming the Lynn Springs Quarry and Millsite. However, this estimate will need to be revised to include all aspects of final reclamation of both the quarry and millsite. It will also need to reflect third party costs for each task and include mobilization of equipment by the third party. Both the BLM and the Forest Service will need to agree with the final surety estimate. ~~TONY - PLEASE FIX THIS PARAGRAPH AS YOU SEE FIT. THIS CAN BE FIRST PARAGRAPH.~~

The Division will suspend further review of the Lynn Springs Quarry NOI until your response to this letter is received. Please note, *no new disturbances are to be made* even though they may be identified in your notice until the plan for this site is approved and surety is posted. If you have any questions in this regard please contact me, Tony Gallegos, Lynn Kunzler, or Tom Munson of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

Attachment:

jb

cc: Gordon Struthers, USFS
Dan Washington, BLM.

TEMPORARY DRAFT
Page 7

Recommended Revegetation Species List
for

Utah Building Stone
Lynn Springs Quarry
M/003/025

Prepared by DOGM January 23, 1996

(This list was reviewed and OK'd by the Forest Service and BLM)

<u>Common Name</u>	<u>Species Name</u>	<u>*Rate lbs/ac (PLS)</u>
Thickspike wheatgrass	<u>Agropyron dasystachium</u>	2.0
Bluebunch wheatgrass	<u>Agropyron spicatum</u>	2.0
Intermediate wheatgrass	<u>Agropyron intermedium</u>	1.0
'Piute' orchard grass	<u>Dactylis glomerata</u>	0.5
Basin Wildrye	<u>Elymus cinereus</u>	1.5
Indian ricegrass	<u>Orzopsis hymenoides</u>	1.5
Ladak Alfalfa	<u>Medicago sativa</u>	1.0
Yellow sweetclover	<u>Mellorus officinalis</u>	0.5
Palmer penstemon	<u>Penstemon palmeri</u>	0.5
Small burner	<u>Sanguisorba minor</u>	1.5
Wyoming big sagebrush	<u>Artemisia tridentata wyomingensis</u>	0.1
Rubber Rabbitbrush	<u>Chrysothamnus nauseosus</u>	0.5
Forage kochia	<u>Kochia prostrata</u>	0.5
	Total	13.1 lbs/ac

*This the recommended drill seeding rate.

If the species are to be broadcast seeded, increase the rate by 50%.